



#14

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Jacques DUMAS et al.

Serial No.: 10/071,248

Group Art Unit: 1625

Filed: February 11, 2002

Examiner: Rita J. Desai

For: METHOD AND/OR PROCESS FOR PREPARING ω -CARBOXYARYL
SUBSTITUTED DIPHENYL UREAS AS RAF KINASE INHIBITORS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.56, 1.97 and 1.98

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Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

Based on information from foreign associates, it is believed that at least Iranian No. 26555 and Lebanese No. 6124 are patented applications filed in the English language and registered. Copies of the registration certificates and the applications filed are provided herewith.

Iran Patent No. 26555 was filed on January 13, 2000 and Lebanese Patent No. 6124 was filed on January 12, 2000

Pursuant to 37 CFR § 1.97 and § 1.98, Applicant identifies the following related copending applications.

Title: Inhibition of RAF Kinase Activity Using Aryl Ureas
Inventor(s): Jill Wood et al.
Filed January 8, 2001, Serial No. 09/755,060
Status: Published

Title: Inhibition of p38 Kinase Activity by Aryl Ureas
Inventor(s): Gerald Ranges et al.
Filed September 7, 2001, Serial No. 09/947,761

Title: Inhibition of p38 Kinase by Aryl Ureas
Inventor(s): Gerald Rogers et al.
Filed May 21, 1998, Serial No. PCT/US98/10375

Title: Inhibition of RAF Kinase Using Symmetrical and
Unsymmetrical
Substituted Diphenyl Ureas

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the
U.S. Postal Service as First Class Mail in an envelope addressed to:
Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-
1450 on: December 15, 2003

Name: Richard J. Travieso Reg # 30495

Signature: [Signature]

Inventor(s): Scott Miller et al.
Filed December 22, 1998, Serial No. 09/776,936

Title: Inhibition of RAF Kinase Using Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.
Filed: August 18, 2000, Serial No. 09/640,780

Title: Inhibition of RAF Kinase Using Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.
Filed December 22, 1998, PCT/US98/26078

Title: Inhibition of RAF Kinase Using Aryl and Heteroaryl Substituted Heterocyclic Ureas
Inventor(s): William Scott et al.
Filed December 27, 1998, Serial No. 09/472,232

Title: Inhibition of RAF Kinase Using Aryl and Heteroaryl Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.
Filed December 22, 1998, PCT/US98/26082

Title: Inhibition of P38 Kinase Activity Using Symmetrical and Unsymmetrical Diphenyl Ureas
Inventor(s): Scott Miller et al.
Filed February 1, 2002, Serial No. 10/060,396

Title: Inhibition of p38 Kinase Using Symmetrical and Unsymmetrical Diphenyl Ureas
Inventor(s): Scott Miller et al.
Filed: December 22, 1998, PCT/US98/27265

Title: Inhibition of P38 Kinase Using Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.
Filed December 10, 1999, Serial No. 09/458,014

Title: Inhibition of p38 Kinase Activity Using Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.
Filed December 22, 1998, PCT/US98/26080

Title: Inhibition of p38 Kinase Activity Using Aryl and Heteroaryl Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.
Filed December 22, 1998, Serial No. 09/776,935

Title: Inhibition of p38 Kinase Activity Using Aryl and Heteroaryl Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.

Filed: December 22, 1998, PCT/US98/26079

Title: Inhibition of RAF Kinase Quinoliny, Isoquinoliny or Pyridyl Ureas

Inventor: Jacques Dumas et al.

Filed April 19, 2002, Serial No. 10/125,369

Title: Heteroaryl Ureas Containing Nitrogen Hetero-Atoms As p38 Kinase Inhibitors

Inventor: Jacques Dumas et al.

Filed April 20, 2001, Serial No. 09/838,286

Title: Heteroaryl Ureas Containing Nitrogen Hetero-Atoms As p38 Kinase Inhibitors

Inventor: Jacques Dumas et al.

Filed April 18, 2002, Serial No. PCT/US02/12064

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors Inventor: Bernd Riedl et al.

Filed: September 10, 2001, Serial No. 09/948,915

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor: Bernd Riedl et al.

Filed: January 12, 2000, Serial No. PCT/US00/00648

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor: Bernd Riedl et al.

Filed: July 12, 2001, National Phase of (09/889,227)
(PCT/US00/00648)

Title: Inhibition of Raf Kinase Using Quinoliny, Isoquinoliny and Pyridiny Ureas

Inventor: Jacques Dumas et al.

Filed February 7, 2001, Serial No. 09/777,920

Title: Inhibition of Raf Kinase Using Quinoliny, Isoquinoliny and Pyridiny Ureas

Inventor: Jacques Dumas et al.

Filed: January 7, 2002, Serial No. PCT/US02/03361

Title: Method and/or Process for Preparing ω -Carboxyaryl Substituted Diphenyl Ureas as raf Kinase Inhibitors

Filed February 11, 2002, Serial No. 10/071,248

Title: Omega-Carboxy Aryl Substituted Diphenyl Ureas as p38 Kinase Inhibitors

Inventor: Bernd Riedl et al.

Filed March 12, 2002, Serial No.10/086,417

Title: Aryl Ureas With Angiogenesis Inhibiting Activity

Inventor(s): Jaques Dumas et al.

Filed February 11, 2002, Serial No.60/354,950

Title: ω -Carboxyaryl Substituted Diphenyl Ureas as RAF Kinase Inhibitors

Inventor(s): Riedl et al.

Filed November 27, 2001, Serial No. 09/993,647

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor(s): Riedl et al.

Filed January 11, 2002, Serial No. 09/758,266

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor: Riedl et al.

Filed: July 19, 2001, Serial No. 09/907,970

Title: Aryl Urea Compounds In Combination with Other Cytostatic or Cytotoxic Agents For Treating Human Cancers

Filed December 3, 2001, S.N. 60/334,609

Title: Aryl Ureas As Kinase Inhibitors

Inventor: Jacques Dumas.

Filed: February, 11, 2002, S.N. 60/354,937,

Title: Aryl Ureas With raf Kinase and Angiogenesis Inhibiting Activity

Inventor: Jaques Dumas

Filed: February, 11, 2002, S.N. 60/354,948

Title: Pyridine, Quinoline and Isoquinoline N-oxides as Kinase Inhibitors

Inventor: Jacques Dumas

Filed: February, 11, 2002, S.N. 60/354,935

Title: Aryl Ureas With Angiogenesis Inhibiting Activity

Inventor: Jacques Dumas, et. al.

Filed February 11, 2003, Serial No.10/361,858

Title: ω -Carboxyaryl Substituted Diphenyl Ureas as RAF Kinase Inhibitors

Inventor(s): Riedl et al.

Filed November 27, 2001, Serial No. 09/993,647

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor(s): Riedl et al.

Filed January 11, 2002, Serial No. 10/242,226

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor: Riedl et al.
Filed: July 19, 2001, Serial No. 09/907,970

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor: Riedl et al.
Filed: October 30, 2002, Serial No. 10/283,248

Title: Aryl Urea Compounds In Combination with Other Cytostatic or Cytotoxic Agents For Treating Human Cancers

Inventor: Carter et al
Filed December 3, 2002, S.N. 10/308,187

Title: Aryl Ureas As Kinase Inhibitors

Inventor: Jacques Dumas.
Filed: February, 11, 2003, S.N. 10/361,859

Title: Aryl Ureas With raf Kinase and Angiogenesis Inhibiting Activity

Inventor: Jaques Dumas
Filed: February, 11, 2003, S.N. 10/361,844

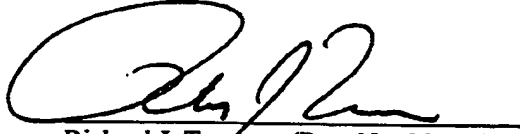
Title: Pyridine, Quinoline and Isoquinoline N-oxides as Kinase Inhibitors

Inventor: Jacques Dumas
Filed: February, 11, 2003, S.N. 10/361,850

FEES

No fee is believed due because this submission is filed with an RCE. However, if a fee is deemed necessary the Commissioner is hereby authorized to charge any fees associated with this response or credit any overpayment to Deposit Account No. 13-3402.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'R. J. Traverso', written over a horizontal line.

Richard J. Traverso (Reg. No. 30,595)
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Attorney Docket No.: BAYER 15P4

Date: December 15, 2003

RJT:jqs
Bayer 15P4/ids 12-15-03



وزارت بهداشت و آموزش پزشکی

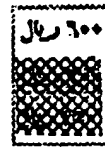
وزارت بهداشت و آموزش پزشکی

سازمان ثبت اسناد و احکام کشور
انظار نامه ثبت اختراع

۰۴۶۲۸۴ *

سری الف

کد ۱-۲-۰۱



اینجانب، دکتر بیرو، لیلی، و خالد، ساکن تهران، خیابان ولیعصر محدودیه شماره ۱۰۱، باقتضای عهد، عینت، حرم شفل و خاندان
و کسر علی نقایی و همکاران

نیمه ۱۳۵۷ از طرف بایر کورپوریشن
BAYER CORPORATION

نیمه آمریکا آدرس

۱۰۰ بایر رواد، پیتزبورگ، پنسیلوانیا ۱۵۲۰۵، ایالات متحده آمریکا
100 BAYER ROAD, PITTSBURGH, PENNSYLVANIA 15205, U.S.A.

که اختراع قانونی خود را در تهران با آدرس زیر تعیین می‌نماید

تهران، خیابان ولیعصر محدودیه شماره ۱۰۱، باقتضای عهد، عینت، حرم شفل و خاندان

نفاذ دارم، تعین اختراع را چنین به

"CARBOXYARYL SUBSTITUTED DIPHENYL UREAS AS RAF KINASE INHIBITORS"

کاربوکسیاریل جانشین اوردهای دیپنیل می‌تواند مانع شوند از فعالیت های کیناز های زیاد

13 JAN 2000

که در تاریخ ۱۳۵۷/۱۲/۲۵ ثبت اختراع شد
برای مدت ۲۲ سال
بابت ۱۹۹۹
روز مطابق قانون ثبت اختراعات و آیین نامه اجرایی آن
شماره ۶۰/۱۱۵،۸۷۷
۹/۲۵۷،۲۶۶
۹/۲۵۸،۲۲۸

بایر کورپوریشن ثبت نماید

ضمائم عبارتند از: ۱- به نسخه توصیف اختراع ۲- سه نسخه نقش اختراع ۳- رسید پرداخت هزینه قانونی ۴- وکالت نامه

تاریخ ۱۳۵۷/۱۲/۲۵
لکبه محمد محمدی
۵۷۸۱۰۰۰۳۵

محل امضاء



وزارة الاقتصاد والتجارة
المديرية العامة للاقتصاد والتجارة
مصلحة حماية الملكية الفكرية

قرار رقم ١٢٥٨/٢٠٠٠

بمنح براءة اختراع

٢٨٩٢/٢٠٠٠

من وزير الاقتصاد والتجارة

بناء على المرسوم رقم ٤ تاريخ ١٩٩٨/١٢/٠٤ (تشكيل الحكومة)

بناء على مشروع القانون المنفذ بموجب المرسوم رقم ٦٨٢١ تاريخ ٢٨ كانون الاول ١٩٧٣ (تحديد مهام

وملاكات وزارتي الاقتصاد والتجارة والصناعة والنفط)

بناء على القرار رقم ٢٣٨٥ الصادر في ١٧ كانون الثاني ١٩٢٤ وتعديلاته (نظام حقوق الملكية التجارية

والصناعية) ولا سيما المادة ١٤ من

بناء على القرار رقم ١٥٢ الصادر في ١٦ تموز ١٩٣٩ (تطبيق اتفاق اتحاد باريس المتعلق بحماية الملكية

الصناعية المؤرخ في ١٨٨٣/٣/٢٠)

بناء على الطلب المقدم بتاريخ ٢٠٠٠/٠١/١٢ من شركة سلبا وشركاهم مركزها في بيروت بنالية شركة

التأمين العربية، شارع فينيقيا بصفتها عاملة باسم ولحساب شركة باير كوربوريشن مركزها في ١٠٠ باير

رود، مدينة بيتسبورغ، ولاية بنسلفانيا، الولايات المتحدة الأمريكية

بناء على محضر ايداع الطلب المذكور المنظم من قبل رئيس مصلحة حماية الملكية الفكرية بتاريخ ٢٠٠٠/٠١/١٢

بناء على اقتراح المدير العام للاقتصاد والتجارة

يقرر ما يأتي:

المادة الأولى: تمنح شركة باير كوربوريشن مركزها في ١٠٠ باير رود، مدينة بيتسبورغ، ولاية بنسلفانيا،

الولايات المتحدة الأمريكية براءة اختراع تتعلق بـ "طريقة لتحضير مركبات بول نيفينيل

مستبدلة من كاربو كسيلايل كاتريزات مثبطة"

"Process for preparing carboxyaryl substituted diphenyl ureas as raf kinase inhibitors"

وذلك لمدة خمس عشرة سنة ابتداء من تاريخ ايداع الطلب المقدم في ٢٠٠٠/٠١/١٢

والمسجل تحت رقم ٦١٢٤ مع التمتع بحق الأولوية استناداً إلى الطلبات المودعة في الولايات

المتحدة الأمريكية تحت الأرقام ٨٧٧، ١١٥، ٦٠/١١٥ تاريخ ١٣ كانون الثاني ١٩٩٩

و ٢٥٧، ٢٦٦، ٠٩/٢٥٧، ٢٦٦ تاريخ ٢٥ شباط ١٩٩٩ و ٢٢٥، ٢٢٨، ٠٩/٢٢٥، ٢٢٨ تاريخ ٢٢ تشرين الاول ١٩٩٩

يتمتع حامل هذه البراءة بجميع الحقوق والواجبات المنصوص عليها في القرار رقم ٢٣٨٥

وتعديلاته، مع مراعاة احكام المادة ١٤ منه التي تتضمن ان هذه البراءة تعطى بدون ادنى

ضمانة في ما يخص حقيقة الاختراع لو فضل له لابتكاره ولا سيما في ما يخص بلانته

وصفه لو صحته

المادة الثالثة:

ينشر هذا القرار في الجريدة الرسمية ويبلغ الى صاحب العلاقة

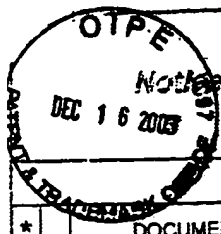
بيروت، في ١٠ أيار ٢٠٠٠

وزير الاقتصاد والتجارة

د. ناصر السعيد



AA



Notice of References Cited

Application No.

07/995,749

Applicant(s)

WILLIAM J. ELOTT ET AL

Examiner

[Signature]

Group Art Unit

1513

Page 1 of 2

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*	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	0,502,504	08-1892	THOMAS	564	052
B	1,792,156	12-1931	FITZKY	564	052
C	2,046,375	07-1936	GOLDSTEIN ET AL	564	052
D	2,093,265	07-1936	COFFBY ET AL	564	052X
E	2,288,422	06-1942	ROHM	564	052X
F	2,183,082	07-1954	HILL ET AL	564	052X
G	2,745,874	05-1956	SCHETTY ET AL	564	052X
H	2,781,330	02-1957	DOWNEX	564	055X
I	2,867,659	01-1959	MODEL ET AL	564	052X
J	2,877,268	03-1959	APPLEGATH ET AL	564	053X
K	2,960,488	11-1960	TAMBLYN ET AL	564	052X
L	2,973,386	02-1961	WELDON	564	055X
M	3,230,141	01-1966	FRICK ET AL	564	052X

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*	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCI
N	0,771,323	03-1957	GREAT BRITAIN	GEISY I	—	—
O	0,921,682	03-1953	GREAT BRITAIN	GEISY II	—	—
P	0,253,997	02-1988	EAST GERMANY	HAUPTMANN ET AL	—	—
Q	0,405,233	01-1991	EUROPE	SEKIYA ET AL	—	—
R	1,457,172	09-1966	FRANCE	FERRAULT	—	—
S	0,487,014	12-1929	GERMANY	I.G. FARREN I	—	—
T	0,511,468	10-1930	GERMANY	I.G. FARREN II	—	—

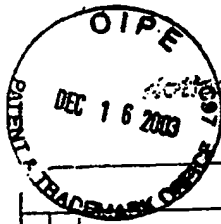
NON-PATENT DOCUMENTS

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* A copy of this reference is not being furnished with this Office action.
(See Manual of Patent Examining Procedure, Section 707.05(a).)

Best Available Copy



AB

Application No. 09/083,349	Applicant(s) JILL WOOD ET AL
Examiner Hayden D. Hayes	Group Art Unit 1615
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*	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	3,424,760	01-1969	HELSLEY ET AL I	548	557
B	3,434,761	01-1969	HELSLEY ET AL II	548	557
C	3,434,762	01-1969	HELSLEY ET AL III	548	557
D	4,009,847	03-1977	ALDRICH ET AL	424	375
E	4,071,524	01-1978	BANITT	548	557
F	4,111,683	09-1978	STNAER	549	480X
G	4,437,878	03-1984	ACKER ET AL	549	069X
H	4,643,849	02-1981	HTRAI ET AL	549	955
I	5,773,457	06-1998	TANG ET AL (06-07-1995)	514	945
J	3,828,001	08-1974	PROAD ET AL	549	069
K					
L					
M					

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*	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N	3305866	08-1984	W. GERMANY	ACKER ET AL	549	069
O	54-32,468	03-1979	JAPAN	OTSUKA	548	557
P						
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Application No. 09/425,228		Applicant(s) Bernd Riedl et al	
Examiner Rita Desai		Group Art Unit 1625	Page 1 of 2

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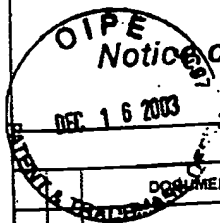
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		DOCUMENT NO.	DATE	COUNTRY	NAME	
X	N	9,852,559	11/1998	WO	Bayers	
X	O	9,852,558	11/1998	WO	Bayers	
X	P	9,932,436	7/1999	WO	Bayers	
X	Q	9,932,106	7/1999	WO	Bayes	
X	R	9,932,455	7/1999	WO	Bayers	
X	S	9,932,463	7/1999	WO	Bayers	
X	T	9,932,111	7/1999	WO	Bayers	

NON-PATENT DOCUMENTS		DATE
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(See Manual of Patent Examining Procedure, Section 707.05(a).)

AP

Application No. 09/425,228		Applicant(s) Bernd Riedl et al	
Examiner Rita Desai		Group Art Unit 1625	
		Page 1 of 1	



Notice of References Cited

U.S. PATENT DOCUMENTS

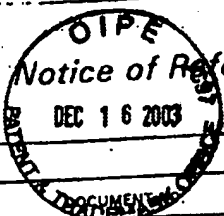
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B					
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FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

	DOCUMENT (including Author, Title, Source, and Pertinent Pages)	DATE
U	Capius 95:61995, Abstract JP 55182772, Substituted acetic derivatives., Shionogi & Co.	5/23/1980
V	Capius 86:72448, Abstract JP 57053785, Pyridine derivatives, Maeda Ryozi et al	11/15/1982
W	Capius 84:180049, Abstract JP 56029871, Hamada Yoshinori et al	7/10/1981
X	Capius 84:43857, Abstract JP 58021626, Maeda Ryozi et al	5/2/1983



Application No.
09/425,229

Applicant(s)

Riedl et al

Examiner
William R. A. Jarvis

Group Art Unit
1614

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U.S. PATENT DOCUMENTS

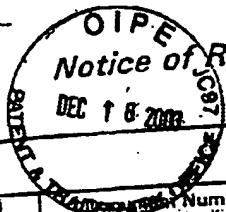
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	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N	WO 95/33458	12/1995	PCT	SMITHKLINE BEECHAM	----	----
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Application No.
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Dumas et al.

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Deepak Rao

Group Art Unit
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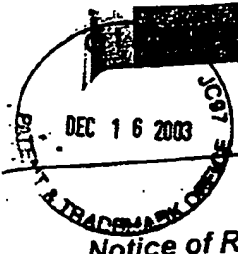
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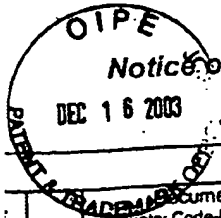
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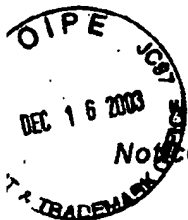
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Application/Control No.

09/776,935

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DUMAS, JACQUES

Examiner

Mojdeh Bahar

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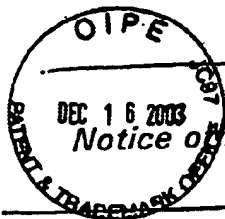
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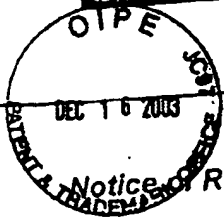
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Application/Control No.

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